

FUEL INJECTOR MOUNTING CONSTRUCTION FOR ENGINE

ABSTRACT OF THE DISCLOSURE

5 A fuel injector mounting construction for an engine includes an improved thrust member. The engine is a direct injected, internal combustion engine. A fuel injector is provided for spraying fuel into a combustion chamber and inserted into an opening formed in a cylinder head. The fuel injector has a contact surface for receiving a loading or thrust force. The contact surface extends about the nozzle of the fuel injector. A seal member is provided for sealing a space between the fuel injector and the opening. The thrust member has a fixing section and a thrust section. A fixing member affixes the thrust member onto the cylinder head at the fixing section and thereby loads the thrust section onto the contact surface to exert a upon the contact surface toward the combustion chamber. At least one of the thrust section and the fixing section has a convex surface. The convex surface allows for varying orientations of the thrust member when mounted onto the cylinder head and thereby permits the thrust member to squarely load the contact surface, such that the force is substantially uniform about the contact surface, despite manufacturing tolerance stack-ups.

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